

THE CLAIMS

A detailed listing of the claims is provided below. A status identifier is provided for each claim in a parenthetical expression following each claim number.

1. (Currently Amended) A method for controlling access to a network by a wireless client, the method comprising:

assigning a network address to the wireless client, wherein the network address has a lease period;

sending the assigned network address to the wireless client prior to establishing a secure link;

establishing the secure link using the assigned network address; and

sending an address of a wireless access point to the wireless client, wherein the wireless access point is adapted to ~~provide access to the network for the wireless client~~
handle the secure link established by the wireless client; and

~~if the wireless client fails to establish the secure link with the wireless access point and request a renewal of the assigned address via the secure link within the lease period, invalidating the assigned network address, thereby preventing the wireless client from accessing the network.~~

2. (Original) The method of claim 1, wherein the assigned network address and the wireless access point address are sent to the wireless client in a DHCP offer packet.

3. (Original) The method of claim 1, wherein the secure link is an IPSEC tunnel.

4. (Original) The method of claim 1, wherein the assigned network address is sent to the wireless client via the wireless access point.

5. (Original) The method of claim 1, wherein the address of the wireless access point that is sent to the wireless client comprises an IP address and a MAC address.

6. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 1.

7. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 2.

8. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 3.

9. (Previously Presented) A method for controlling access to a network by a wireless client, the wireless client using an assigned network address having a lease period to communicate with the network, the method comprising:

engaging in a negotiation of a secure link with the wireless client;

communicating with an address server of the network to determine whether the lease period of the leased network address has expired; and

if the lease period is determined to be expired, terminating the negotiation, thereby preventing the wireless client from accessing the network.

10. (Original) The method of claim 9, wherein the negotiation is a negotiation of an IPSEC tunnel.

11. (Original) The method of claim 9, wherein the address server is a DHCP server.

12. (Currently Amended) A method for controlling access to a network by a wireless client, the method comprising:

receiving a request for a network address from the wireless client;

attaching information to the request to indicate that the request originated from a wireless client;

relaying the request to the address server;

receiving an assignment of an address from the address server, the address having a lease time;

relaying the assignment of the address to the wireless client;

negotiating the establishment of a secure link with the wireless client using the assigned address; and

~~if the lease time expires before the secure link is established, denying the wireless client access to the network using the assigned address to communicate with clients via a wireless access point.~~

13. (Previously Presented) The method of claim 12, further comprising:

broadcasting an ARP packet to check whether there are any other clients having the same assigned address of the wireless client; and

if a response to the ARP packet is received, terminating the negotiation, thereby denying the wireless client access to the network.

14. (Previously Presented) The method of claim 12, further comprising:

in response to the negotiation, creating an ARP entry that maps the assigned address of the wireless client to a MAC address of the wireless client.

15. (Original) The method of claim 12, wherein the request is a DHCP discover packet, the method further comprising: inserting data into an optional field of

the packet to indicate that the packet was received from a wireless client; and relaying the packet to the address server.

16. (Previously Presented) The method of claim 12, further comprising:
receiving a renewal request packet having a request for a renewal of the lease time from the wireless client;

if the secure link is successfully negotiated with the wireless client, inserting data into an optional field of the renewal request packet to indicate that the renewal request packet was received from a wireless client; and

relaying the renewal request packet to the address server.

17. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 9.

18. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 10.

19. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 12.

20. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 13.

21. (Original) On a wireless client, a method for gaining access to a network, the method comprising:

broadcasting a request for an address on the network;

receiving an assignment of a leased address from the network, the leased address having a lease time; and

negotiating a secure link with the network before the lease time expires.

22. (Original) The method of claim 21, wherein the request for an address is broadcast as a DHCP discover packet.

23. (Original) The method of claim 21, wherein the secure link is an IPSEC tunnel.

24. (Previously Presented) The method of claim 21, wherein the negotiating step further comprises:

generating an ARP packet having the lease address; and

in response to the ARP generation, initiating a negotiation of the secure link with the network.

25. (Original) The method of claim 21, wherein the leased address is received in a packet, wherein the packet additionally contains the network and MAC address of a wireless access point, wherein the secure link is negotiated with the wireless access point corresponding to the network address.

26. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 21.

27. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 22.

28. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 23.

29. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 24.

30. (Original) A computer-readable medium having stored thereon computer-executable instructions for performing the method of claim 25.

31. (Previously Presented) The method according to claim 1 wherein the assigned network address having the lease period is sent to the wireless client prior to authentication of the wireless client.

32. (Previously Presented) The method according to claim 1 wherein the lease period is of a duration that is sufficient for the wireless client to establish a secure link with the wireless access point and send a renewal request of the assigned address via the secure link.

33. (Previously Presented) The method according to claim 1 further comprising the step of extending the lease period of the assigned network address to a predefined duration if the wireless client establishes a secure link with the wireless access point and requests a renewal of the assigned address via the secure link.